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CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date:13.01.2021

## TEST REPORT ON CEMENT

**Client Agency** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Name of Work** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

**Sample :** : Cement (Dalmia 53 grade OPC)

**Sample Supplied by:** : AGENCY

**Date of Manufacture:** : December-2020

**Date of Testing** 11.01.2021 to 13.01.2021

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 269:2015 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 140 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part - 5):1988(RA 2014) | 370 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 29.50% | - - |

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 13.01.2021

## TEST REPORT ON FINE AGGREGATES (SAND)

**Client Agency** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Name of Work** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

**Date of Testing** 13.01.2021

**IS Code** :IS 383:2016

**Material** :IS 2386 (Part 1):1963(RA 2011)
: Sand

Total Wt. of Aggregates in gms 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 80 | 8.00 | 8.00 | 92.0 | 90-100 |
| 2.36 | 124 | 12.40 | 20.40 | 79.6 | 75-100 |
| 1.18 | 163 | 16.30 | 36.70 | 63.3 | 55-90 |
| 600 Micron | 247 | 24.70 | 61.40 | 38.6 | 35-59 |
| 300 Micron | 158 | 15.80 | 77.20 | 22.8 | 8-30 |
| 150 Micron | 150 | 15.00 | 92.20 | 7.8 | 0-10 |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 13.01.2021

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Agency** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

**Name of Work** Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 13.01.2021

**IS Code** :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 196 | 1.31 | 1.31 | 98.69 | 95-100 |
| 20 | 8532 | 56.88 | 58.19 | 41.81 | 30-70 |
| 10 | 3214 | 21.43 | 79.61 | 20.39 | 10-35 |
| 4.75 | 2563 | 17.09 | 96.70 | 3.30 | 0-5 |

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 13.01.2021

## TEST REPORT ON COARSE AGGREGATES

**Client** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Agency** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

**Name of Work** Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

Date of Testing 13.01.2021

**IS Code** :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Requirements as per IS 383:2016 |
|---|---|---|---|---|---|
| 40 | 0 | 0 | 0 | 100 | 100 |
| 20 | 182 | 3.6 | 3.6 | 96.4 | 95-100 |
| 10 | 2525 | 50.5 | 54.1 | 45.9 | 25-55 |
| 4.75 | 2234 | 44.7 | 98.8 | 1.2 | 0-10 |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date 13.01.2021

## TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

**Client Agency** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Name of Work** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

**Date of Testing** 13.01.2021

**Material** : Masonry Sand

Total wt. of aggregates in gms = 1000

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits as per IS 2116-1980 |
|---|---|---|---|---|---|
| 4.75 | 0 | 0.00 | 0.00 | 100.0 | 100 |
| 2.36 | 29 | 2.90 | 2.90 | 97.1 | 90-100 |
| 1.18 | 32 | 3.20 | 6.10 | 93.9 | 70-100 |
| 600 Micron | 81 | 8.10 | 14.20 | 85.8 | 40-100 |
| 300 Micron | 254 | 25.40 | 39.60 | 60.4 | 5-70 |
| 150 Micron | 538 | 53.80 | 93.40 | 6.6 | 0-15 |

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Job No.: CQCE/BBMP/TCR/16/2020-2021

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date:13.01.2021

# TEST REPORT ON CPVC PIPE

**Client** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Agency** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

**Name of Work** Drilling of Borewell and Installation of pump and Motor and Laying of P Providing Drinking Water to Sidhartha Nagara and Khata Nagara in War Jalahalli, BBMP, Bangalore .

**Sample Supplied by:** :AGENCY

**BIS Code:** IS 13360(Part3/Sec 1):1995
IS 15778:2007

**Sample Identification:** CPVC pipe 20mm dia

**Date of Testing** 11.01.2021 to 13.01.2021

| Sl.No | Test | Test Result | Requirements as per IS: 15778:2007 |
|---|---|---|---|
| 1 | Nominal Outer Diameter (mm) | 22.1 | 22.2 mm |
| 2 | Mean Outside Diameter (mm) | 22.2 | Min 22.1 mm<br>Max 22.3 mm |
| 3 | Outside Diameter at Any Point (mm) | 22.1 | Min 22 mm<br>Max 22.4 mm |
| 4 | Density | 1465 $Kg/m^3$ | 1450 $Kg/m^3$ & 1650 $Kg/m^3$ |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021 13.01.2021

# TEST REPORT ON CPVC PIPE

**Client Agency** : Executive Engineer, R R Nagar Division,BBMP, Bangalore.

**Name of Work** : Sri. T Chandrasekar Reddy Contractor, Bangalore.
Drilling of Borewell and Installation of pump and Motor and Laying of P
Providing Drinking Water to Sidhartha Nagara and Khata Nagara in War
Jalahalli, BBMP, Bangalore .

**Sample Supplied by:** :AGENCY

**BIS Code:** IS 13360(Part3/Sec 1):1995
IS 15778:2007

**Sample Identification:** CPVC pipe 50mm dia

**Date of Testing** 11.01.2021 to 13.01.2021

| Sl.No | Test | Test Result | Requirements as per IS: 15778:2007 |
|---|---|---|---|
| 1 | Nominal Outer Diameter (mm) | 54 | 54 mm |
| 2 | Mean Outside Diameter (mm) | 54.1 | Min 53.9 mm<br>Max 54.1 mm |
| 3 | Outside Diameter at Any Point (mm) | 53.9 | Min 53.7 mm<br>Max 54.3 mm |
| 4 | Density | 1570 Kg/$m^3$ | 1450 Kg/$m^3$ & 1650 Kg/$m^3$ |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 27.01.2021

**Client** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Agency** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.

**Name of the work** : Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 27.01.2021 | 8.003 | 336.8 | 14.97 |
| 2 | 20.01.2021 | 27.01.2021 | 8.021 | 342.1 | 15.20 |
| 3 | 20.01.2021 | 27.01.2021 | 8.078 | 358.9 | 15.95 |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 27.01.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client Agency** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

**Name of the work** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

**Sample ID** : Cement Concrete

**Size of cubes** : 150mmx150mmx150mm

**Cross Sectional Area** : 22500 $mm^2$

**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)

**Grade of Concrete** : $M_{20}$

**Compressive Strength as on** : 28th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 27.01.2021 | 8.035 | 490.5 | 21.80 |
| 2 | 20.01.2021 | 27.01.2021 | 8.164 | 501.4 | 22.28 |
| 3 | 20.01.2021 | 27.01.2021 | 8.089 | 515.6 | 22.92 |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 17.02.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore. |
| Agency | : **Sri. T Chandrasekar Reddy** Contractor, Bangalore. |
| Name of the work | Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore . |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 17.02.2021 | 8.152 | 348.2 | 15.48 |
| 2 | 20.01.2021 | 17.02.2021 | 8.167 | 357.9 | 15.91 |
| 3 | 20.01.2021 | 17.02.2021 | 8.197 | 362.1 | 16.09 |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021

Date: 27.01.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Client** | **: Executive Engineer,** R R Nagar Division,BBMP, Bangalore. |
| **Agency** | **: Sri. T Chandrasekar Reddy** Contractor, Bangalore. |
| **Name of the work** | Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore . |
| **Sample ID** | : Cement Concrete |
| **Size of cubes** | : 150mmx150mmx150mm |
| **Cross Sectional Area** | : 22500 $mm^2$ |
| **Technical Reference** | : IS: 516-1959 (Reaffirmed 2008) |
| **Grade of Concrete** | : $M_{20}$ |
| **Compressive Strength as on** | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 27.01.2021 | 8.021 | 486.9 | 21.64 |
| 2 | 20.01.2021 | 27.01.2021 | 8.179 | 497.8 | 22.12 |
| 3 | 20.01.2021 | 27.01.2021 | 8.124 | 502.3 | 22.32 |

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 17.02.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore. |
| Agency | : **Sri. T Chandrasekar Reddy** Contractor, Bangalore. |
| Name of the work | Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore . |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 7th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 17.02.2021 | 8.063 | 338.7 | 15.05 |
| 2 | 20.01.2021 | 17.02.2021 | 8.012 | 346.1 | 15.38 |
| 3 | 20.01.2021 | 17.02.2021 | 8.178 | 358.3 | 15.92 |

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Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 27.01.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| Client | : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore. |
| Agency | : **Sri. T Chandrasekar Reddy** Contractor, Bangalore. |
| Name of the work | Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore . |
| Sample ID | : Cement Concrete |
| Size of cubes | : 150mmx150mmx150mm |
| Cross Sectional Area | : 22500 $mm^2$ |
| Technical Reference | : IS: 516-1959 (Reaffirmed 2008) |
| Grade of Concrete | : $M_{20}$ |
| Compressive Strength as on | : 28th day |

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 27.01.2021 | 8.011 | 502.3 | 22.32 |
| 2 | 20.01.2021 | 27.01.2021 | 8.015 | 516.9 | 22.97 |
| 3 | 20.01.2021 | 27.01.2021 | 8.146 | 524.7 | 23.32 |

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/TCR/16/2020-2021 Date: 17.02.2021

# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

**Client** : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
**Agency** : **Sri. T Chandrasekar Reddy** Contractor, Bangalore.
**Name of the work** Drilling of Borewell and Installation of pump and Motor and Laying of Pipeline to Providing Drinking Water to Sidhartha Nagara and Khata Nagara in Ward No.16, Jalahalli, BBMP, Bangalore .

**Sample ID** : Cement Concrete
**Size of cubes** : 150mmx150mmx150mm
**Cross Sectional Area** : 22500 $mm^2$
**Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
**Grade of Concrete** : $M_{20}$
**Compressive Strength as on** : 7th day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength ($N/mm^2$) |
|---|---|---|---|---|---|
| 1 | 20.01.2021 | 17.02.2021 | 8.064 | 339.2 | 15.08 |
| 2 | 20.01.2021 | 17.02.2021 | 8.127 | 341.1 | 15.16 |
| 3 | 20.01.2021 | 17.02.2021 | 8.119 | 353.6 | 15.72 |

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